

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/834,106 04/13/2001		Bao Feng	45539-20009.00	5315		
25227	7590 06/02/2006		EXAM	EXAMINER		
	N & FOERSTER LLP	PARTHASARAT	PARTHASARATHY, PRAMILA			
SUITE 300	IS BOULEVARD		ART UNIT	PAPER NUMBER		
MCLEAN, V	/A 22102		2136	2136		
			DATE MAILED: 06/02/2006	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No. Appli		Applicant(s)	plicant(s)				
		09/834,106		FENG ET AL.					
Office Action Summary			Examiner		Art Unit				
		Pramila Parthasi	•	2136					
Period fo	The MAILING DATE of this commu or Reply	nication app	ears on the cove	r sheet with the co	orrespondence ad	ddress			
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Masions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comperiod for reply is specified above, the maximum is the to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period w v will, by statute.	ATE OF THIS CO 16(a). In no event, how fill apply and will expire cause the application t	OMMUNICATION ever, may a reply be tim SIX (6) MONTHS from to become ABANDONE	L. ely filed the mailing date of this of this of this of this of this of this of the mailing date of this of this of this of the mailing date of this of the mailing date of this of the mailing date of the m				
Status			•						
1) 又	Responsive to communication(s) file	ed on 18 An	oril 2006.						
· · · · ·	This action is FINAL . 2b)⊠ This action is non-final.								
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims		•						
4)⊠	4)⊠ Claim(s) <u>1-32</u> is/are pending in the application.								
	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.								
	S) Claim(s) is/are allowed.								
· · · —	Claim(s) <u>9-32</u> is/are rejected.								
7)									
8)□	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)	The specification is objected to by the	ne Examiner	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	inder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)⊠ All b)□ Some * c)□ None of:									
	1. ☐ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	• •								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date									
					mal Patent Application (PTO-152)				
	r No(s)/Mail Date	2.22.00/	6) 🔲						

Application/Control Number: 09/834,106

Art Unit: 2136

DETAILED ACTION

Page 2

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.
- **2.** Applicant's submission filed on April 18, 2006 has been entered and made of record.

Claim Rejections - 35 USC § 112

3. Applicant's amendments with respect to Claims 9 – 32 have been fully considered and are persuasive. The rejection 35 USC 112 of Claims 1 – 41 has been withdrawn. However, upon further consideration, the amended Claims 9 – 32 have been rejected under 35 USC 112.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 9 – 32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The amended independent Claims 9, 13, 17, 21, 25 and 29 read, " ... a first cryptography scheme;" and "a second cryptography scheme;".

With respect to "cryptography scheme", although the specification discloses the digital objects are encrypted with a symmetric key cryptosystem, the specification does not disclose a first cryptography scheme and a second cryptography scheme. The specification does not indicate what these first or second cryptography schemes and how they are used to encrypt the plurality of encryption keys. Applicant amendment does not clarify the steps of encrypting the plurality of encryption keys using a first cryptography scheme or encryption key has been further encrypted using a second cryptography scheme.

The dependent claims 10 - 12, 14 - 16, 18 - 20, 22 - 24, 26 - 28 and 30 - 32 are rejected at least by virtue of their dependency on the dependent claims.

Application/Control Number: 09/834,106 Page 4

Art Unit: 2136

Response to Arguments

5. Regarding currently amended claims 9 – 32, Applicant argues that the prior art Gammie et al. (U.S. Patent Number 5,237,610) fails to disclose the claimed invention and do not teach, "enables a user to securely request content from a database while obscuring from the database operator what content was of primary interest to the requester". This argument is not found persuasive. Applicant has not claimed "a user to securely request content from a database while obscuring from the database operator what content was of primary interest to the requester".

Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant agrees with the Examiner that Gammie discloses the twice-encrypted content is received at a receiver where it is twice-decrypted and that the pending claims describe that a once-encrypted key is transmitted from a database to a requester. The examiner respectfully asserts that the cited prior art does teach or suggest the amended subject matter "a once-encrypted key is transmitted from a database to a requester" broadly recited in the amended independent claims (Column 19 line 59 – Column 20 line 28). The dependent claims 10 – 12, 14 – 16, 18 – 20, 22 – 24, 26 – 28 and 30 – 32

Application/Control Number: 09/834,106 Page 5

Art Unit: 2136

are rejected at least by virtue of their dependency on the dependent claims and by other reason set forth in this office action. Accordingly, the rejection for the pending claims 9 – 32 is respectfully maintained.

Examiner suggests applicant to amend the claims in a manner to distinct applicant's invention with prior art with **attention** given to the instant application specification paragraphs [0029 – 0035].

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 9 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Gammie (U.S. Patent Number 5,029,207).
- 7. Regarding Claims 9, 17 and 25 Gammie

discloses generating a plurality of encryption keys, each encryption key associated with one of a plurality of digital objects stored in an electronic database (Summary and Column 9 line 65 – Column 10 line 13);

encrypting the plurality of digital objects using the associated encryption keys (Summary and Column 9 line 65 – Column 10 line 15);

encrypting the plurality of encryption keys using a first cryptography scheme (Summary and Column 9 line 65 – Column 10 line 15);

transmitting to a requester the plurality of encrypted digital object and encryption keys (Summary and Column 9 line 65 – Column 10 line 13);

receiving from the requester at least one of the encryption keys, wherein the received encryption key has been further encrypted using a second cryptography scheme (Summary and Column 9 line 65 – Column 10 line 20);

generating a partially decrypted encryption key by decrypting the received encryption key using the first cryptography scheme (Summary and Column 9 line 65 – Column 10 line 29); and

transmitting the partially decrypted encryption key to the requester (Summary and Column 9 line 65 – Column 10 line 37).

8. Regarding Claims 13, 21 and 29 Gammie discloses requesting a plurality of digital objects from an electronic database (Summary and Column 12 lines 21 - 36);

receiving from the database the requested plurality of digital objects, wherein each digital object has been encrypted using an associated encryption key (Summary and Column 12 lines 21 – 36);

receiving from the database plurality of keys associated with the plurality of digital objects wherein each key has been encrypted using a first cryptography scheme (Summary and Column 12 lines 21 – 36);

selecting a key from the plurality of received keys (Summary and Column 12 lines 21 – 36);

further encrypting the selected key using a second cryptography scheme (Summary and Column 12 lines 21 – 36);

transmitting the key to the database (Summary and Column 12 lines 21 – 36); receiving from the database the key wherein the key has been partially decrypted using the first cryptography scheme (Summary and Column 12 lines 21 – 36);

decrypting the partially decrypted key using the second cryptography scheme to generate a decrypted key (Summary and Column 12 lines 21 – 36); and

decrypting the received digital object using the decrypted key (Summary and Column 12 lines 21 – 36).

- 9. Claims 10, 14, 18, 22, 26 and 30 are rejected as applied above in rejecting Claims 9, 13, 17, 21, 25 and 29. Furthermore, Gammie teaches encrypting the plurality of encryption keys by determining (encryption key)^(random number R) mod (prime number p) for each key (Column 2 lines 14 28).
- **10.** Claims 11, 15, 19, 23, 27 and 31 are rejected as applied above in rejecting Claims 9, 13, 17, 21, 25 and 29. Furthermore, Gammie teaches decrypting the received

encryption key by determining (encryption key)^{(1/(random number R) mod (prime number p-1))} mod (prime number p) (Column 2 lines 14 – 28).

11. Claims 12, 16, 20, 24, 28 and 32 are rejected as applied above in rejecting Claims 10, 14, 18, 22, 26 and 27. Furthermore, Gammie teaches performing the modulo operation if computation of a discrete logarithm is not possible (Column 2 lines 14 – 28).

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO Form 892.

Application/Control Number: 09/834,106

Art Unit: 2136

Applicant is urged to consider the references. However, the references should be

evaluated by what they suggest to one versed in the art, rather than by their specific

disclosure. If applicants are aware of any better prior art than those are cited, they are

required to bring the prior art to the attention of the examiner.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pramila Parthasarathy whose telephone number is 571-

272-3866. The examiner can normally be reached on 8:00a.m. To 5:00p.m.. If attempts

to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz

Sheikh can be reached on 571-232-3795. Any inquiry of a general nature or relating to

the status of this application or proceeding should be directed to the receptionist whose

telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR only. For more

information about the PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

Pramila Parthasarathy

May 29, 2006.

AYAZ SHLINI SUPERVISORY PATENT EXAMINER

Page 9

TECHNOLOGY CENTER 2100